0020E0 2850250

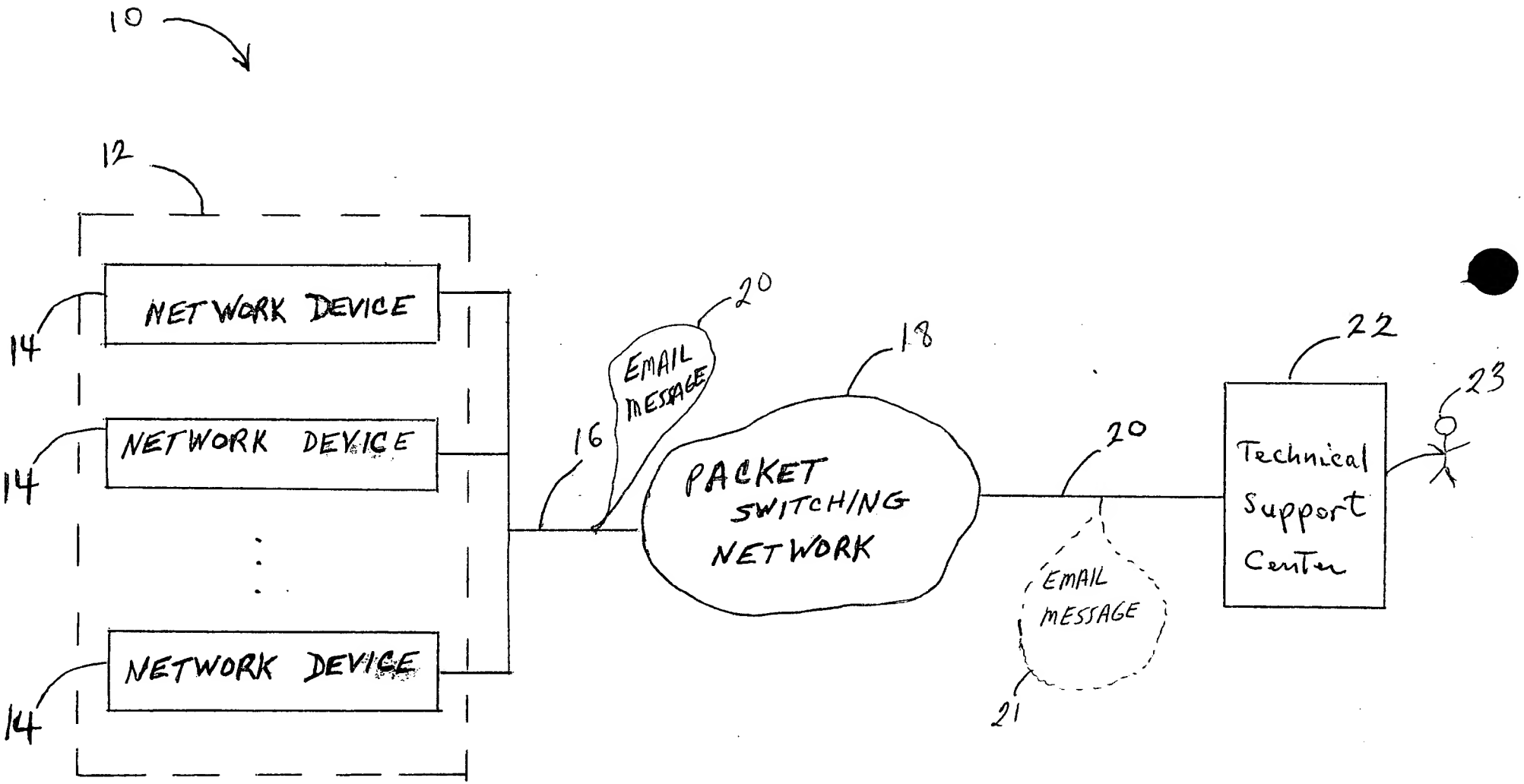


Fig. 1

00200 "2890560

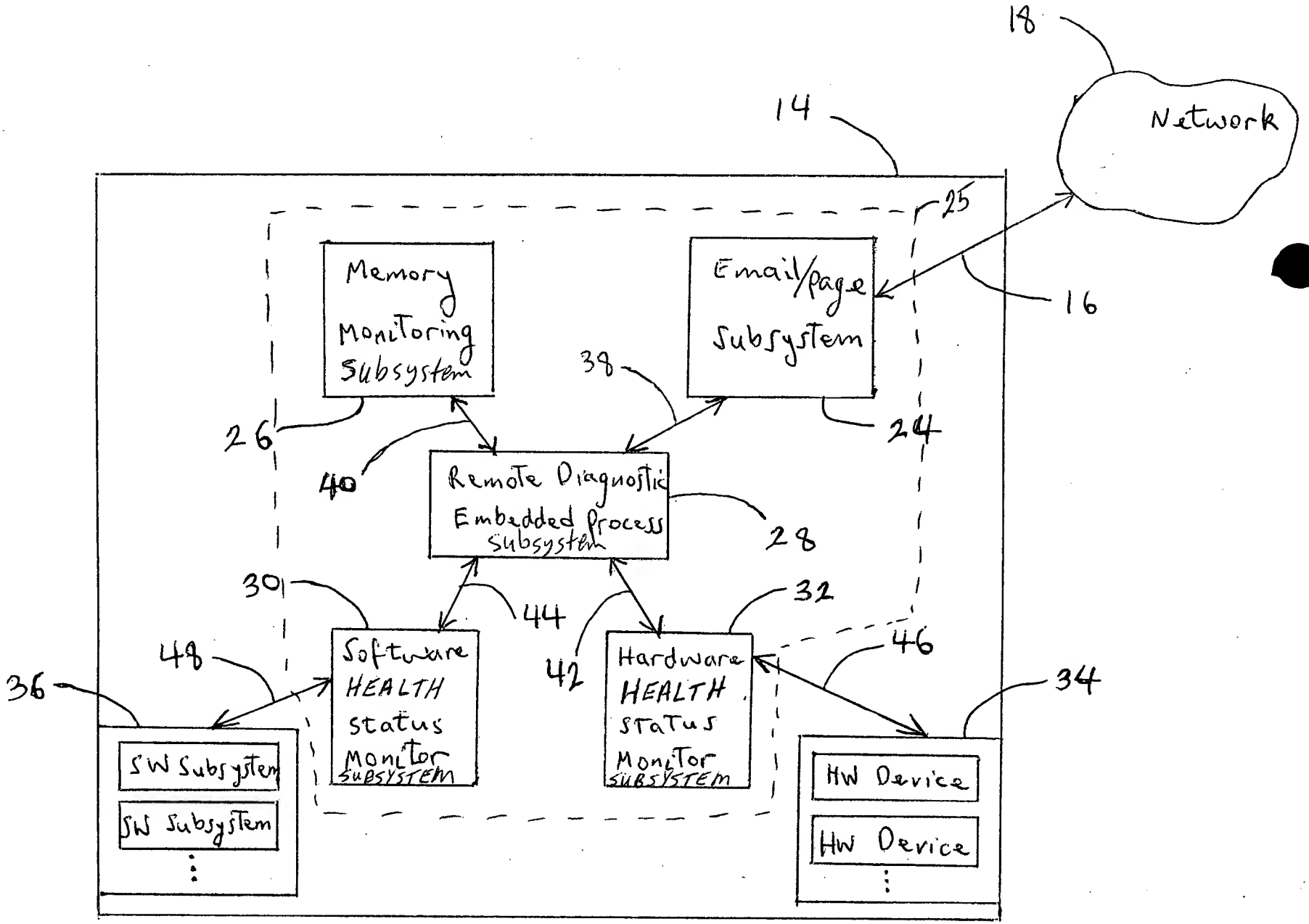
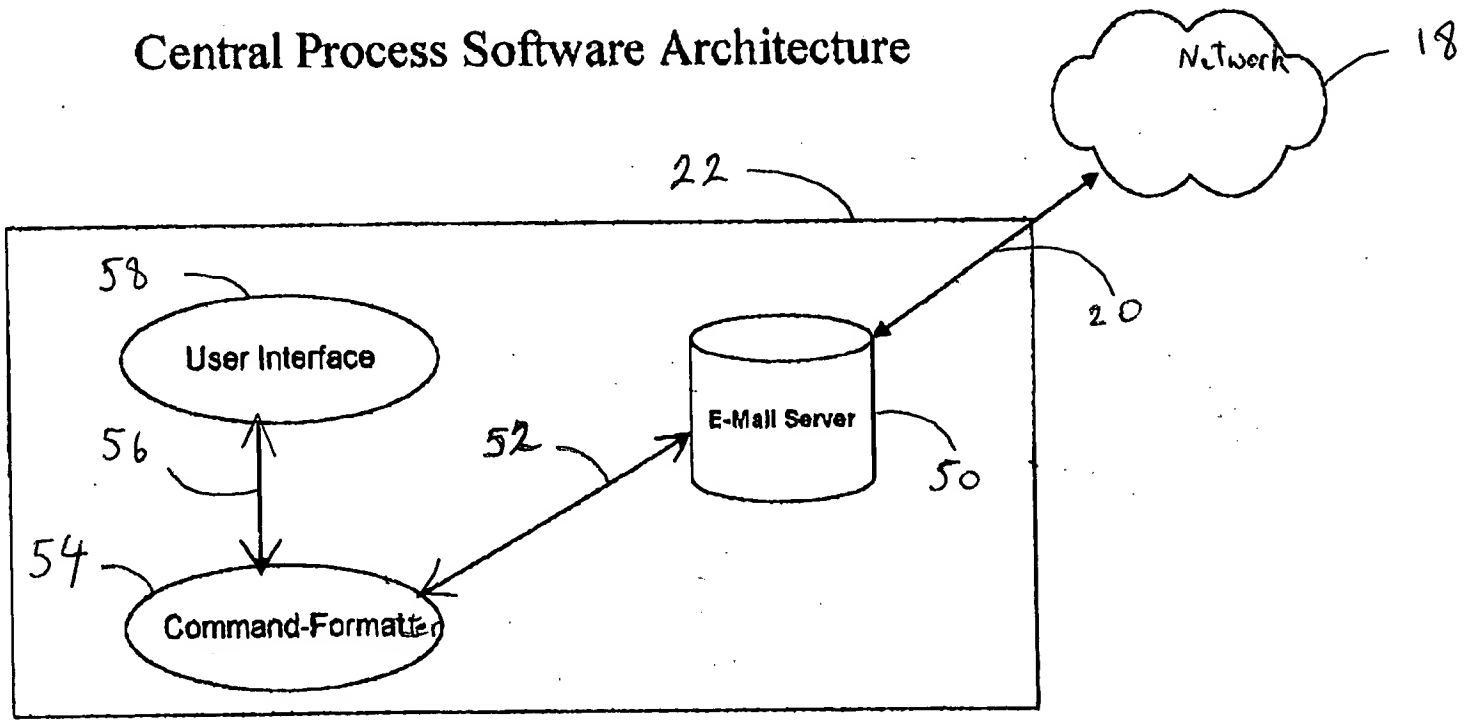


Fig. 2


Central Process Software Architecture
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User Interface
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E-Mail Server
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Command-Formatter

Fig. 3

Bug CSCdp64343 CSC.sys Enclosure 4 of 10
all Added 000107 by hanif

```
rommon 7 > stack
Kernel Level Stack Trace:
Initial SP = 0x616cbd48, Initial PC = 0x602dce94, RA = 0x602c92e4
Frame 0 : FP= 0x616cbd48, PC= 0x602dce94,   0 bytes
Frame 1 : FP= 0x616cbd48, PC= 0x602c92e4,  24 bytes
Frame 2 : FP= 0x616cbd60, PC= 0x602d8fd8,  40 bytes
Frame 3 : FP= 0x616cbd88, PC= 0x602d91b8, 200 bytes
Frame 4 : FP= 0x616cbe50, PC= 0x602d87f8,  40 bytes
Frame 5 : FP= 0x616cbe78, PC= 0x602b68c0, 168 bytes
Frame 6 : FP= 0x616cbf20, PC= 0x602b5aec,  32 bytes
Frame 7 : FP= 0x616cbf40, PC= 0x602db848,  88 bytes

Process Level Stack Trace:
Initial SP = 0x630fac40, Initial PC = 0x603f6080, RA = 0x603f608c
Frame 0 : FP= 0x630fac40, PC= 0x603f6080,  56 bytes
Frame 1 : FP= 0x630fac78, PC= 0x603f068c,  72 bytes
Frame 2 : FP= 0x630facc0, PC= 0x602b39e4,  24 bytes
Frame 3 : FP= 0x630facd8, PC= 0x602b39d0,  24 bytes

rommon 8 > context
Kernel Level Context:
```

Reg	MSW	LSW	Reg	MSW	LSW
zero	00000000	00000000	s0	00000000	34000001
AT	00000000	61730000	s1	00000000	00000001
v0	00000000	0000000a	s2	00000000	0000000a
v1	00000000	00000010	s3	00000000	00000010
a0	00000000	0000002b	s4	00000000	618dd470
a1	00000000	0000000a	s5	00000000	61250000
a2	00000000	00000010	s6	00000000	618f0000
a3	00000000	618dd470	s7	00000000	618e8e20
t0	00000000	00000038	t8	00000000	0000990d
t1	00000000	34000001	t9	00000000	00000000
t2	00000000	10001082	k0	00000000	618dd470
t3	ffffffff	ffff00ff	k1	00000000	00000000
t4	00000000	00001000	gp	00000000	6173ecc0
t5	00000000	0000001c	sp	00000000	616cbd48
t6	ffffffff	ffffc0ff	s8	00000000	00000000
t7	00000000	00000002	ra	00000000	602c92e4
HI	00000000	00000006	LO	00000000	00000000
EPC	00000000	602dce94	ErrPC	00000000	602dc060
Stat	34000002		Cause	01000020	
Interrupt Control Register				10001082	

60

```
Process Level Context:
```

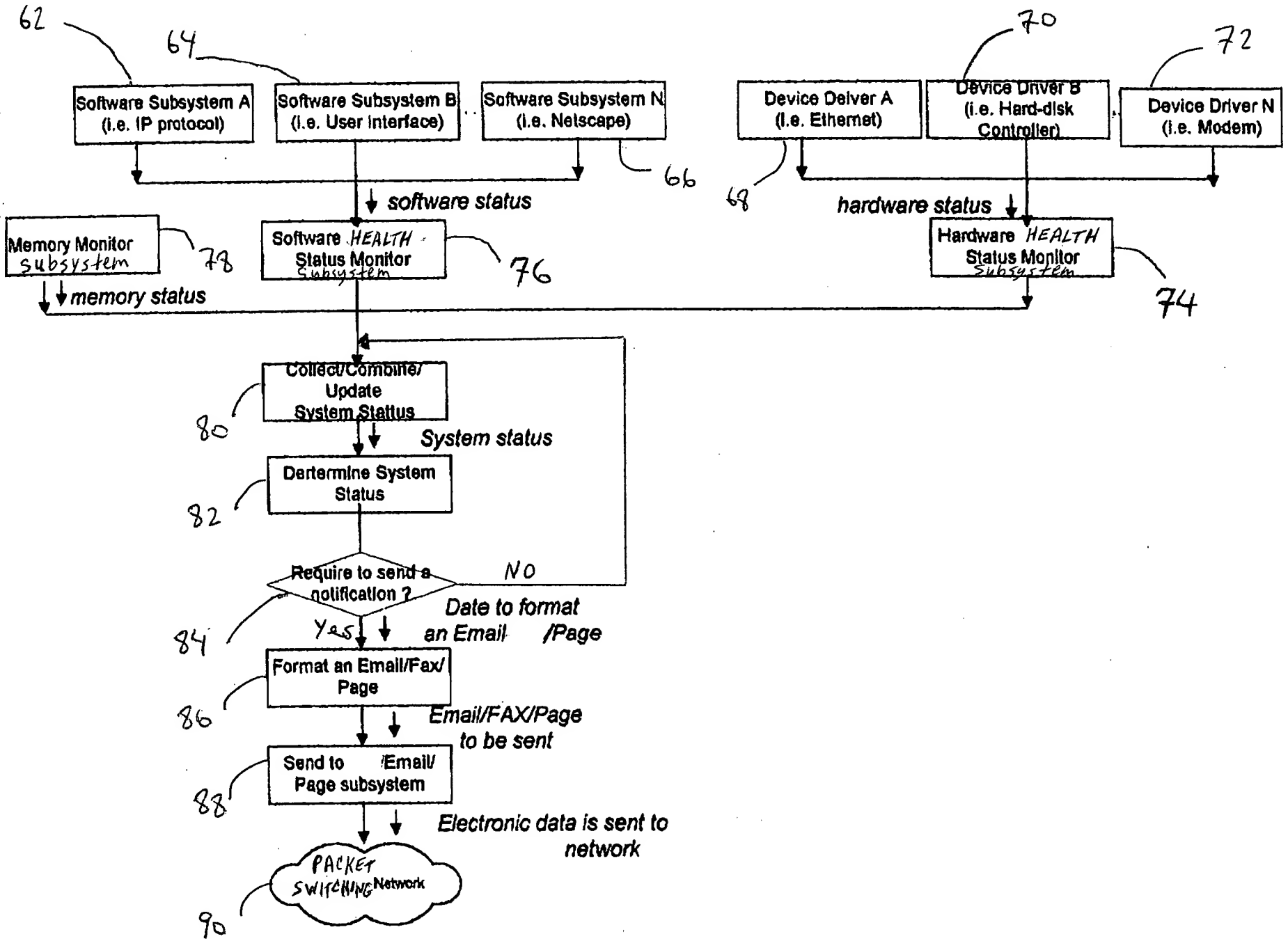
Reg	MSW	LSW	Reg	MSW	LSW
zero	00000000	00000000	s0	00000000	0d0d0d0d
AT	00000000	618e0000	s1	00000000	0d0d0d0d
v0	00000000	00000000	s2	00000000	64bd06ec
v1	00000000	0be6d67d	s3	00000000	618e8b78
a0	00000000	00000000	s4	00000000	618e8b78
a1	00000000	01263690	s5	00000000	61250000
a2	00000000	00000000	s6	00000000	618f0000
a3	00000000	00000000	s7	00000000	618e8e20
t0	00000000	00000000	t8	00000000	602d9ff4
t1	00000000	00000003	t9	00000000	00000000
t2	00000000	00000001	k0	00000000	30400c01
t3	ffffffff	ffff00ff	k1	00000000	01000000
t4	00000000	00001f00	gp	00000000	6173ecc0
t5	00000000	0000f36d	sp	00000000	630fac40
t6	00000000	01000000	s8	00000000	00000000
t7	01000100	0000000f	ra	00000000	603f608c
HI	00000000	00000000	LO	00000000	00000000
EPC	00000000	603f6080	ErrPC	00000000	602dc060
Stat	3400ff03		Cause	01000010	
Interrupt Control Register				10001f82	

```
rommon 9 >



hanif@life:NONE:symbols[84] rsym c5400-js-mz.symbols.Jan7
Reading c5400-js-mz.symbols.Jan7
c5400-js-mz.symbols.Jan7 read in
Enter hex value: 603F6080 603F068C 602B39E4 602B39D0
0x603F6080:cdp_cache_ager(0x603f602c)+0x54
0x603F068C:cdp_prot(0x603f03f4)+0x298
0x602B39E4:r4k_process_dispatch(0x602b39d0)+0x14
0x602B39D0:r4k_process_dispatch(0x602b39d0)+0x0
Enter hex value:
Enter hex value:
Enter hex value:
Enter hex value: 0x602dce94
0x602dce94:emt_call(0x602dce90)+0x4
Enter hex value: 0x602dce94
0x602dce94:emt_call(0x602dce90)+0x4
Enter hex value: 0x602c92e4
0x602c92e4:mon_cpu_exception(0x602c92c0)+0x24
Enter hex value: 0x602d8fd8
0x602d8fd8:r4k_return_to_monitor_direct(0x602d8f60)+0x78
Enter hex value: 0x602d91b8
0x602d91b8:r4k_return_to_monitor(0x602d9010)+0x1a8
Enter hex value: 0x602d87f8
0x602d87f8:handle_exception(0x602d84d0)+0x328
Enter hex value: 0x602b68c0
0x602b68c0:special_default(0x602b66a4)+0x21c
Enter hex value: 0x602b5aec
0x602b5aec:r4k_signal_handler(0x602b59a8)+0x144
Enter hex value: 0x602db848
0x602db848:r4k_sig_dispatch_return(0x602db848)+0x0
Enter hex value: 0x603f6080
0x603f6080:cdp_cache_ager(0x603f602c)+0x54
Enter hex value: 0x603f068c,
0x603f068c,:cdp_prot(0x603f03f4)+0x298
Enter hex value: 0x602b39e4
0x602b39e4:r4k_process_dispatch(0x602b39d0)+0x14
Enter hex value: 0x602b39d0
0x602b39d0:r4k_process_dispatch(0x602b39d0)+0x0
Enter hex value:
```

Fig. 4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Software Subsystem A (i.e. IP protocol)
Software Subsystem B (i.e. User Interface)
Software Subsystem N (i.e. Netscape)
Device Deiver A (I.e. Ethernet)
Device Driver B (i.e. Hard-disk Controller)
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Yes
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Format an Email/Fax/ Page
86
Email/FAX/Page to be sent
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Electronic data is sent to network
PACKET SWITCHING Network
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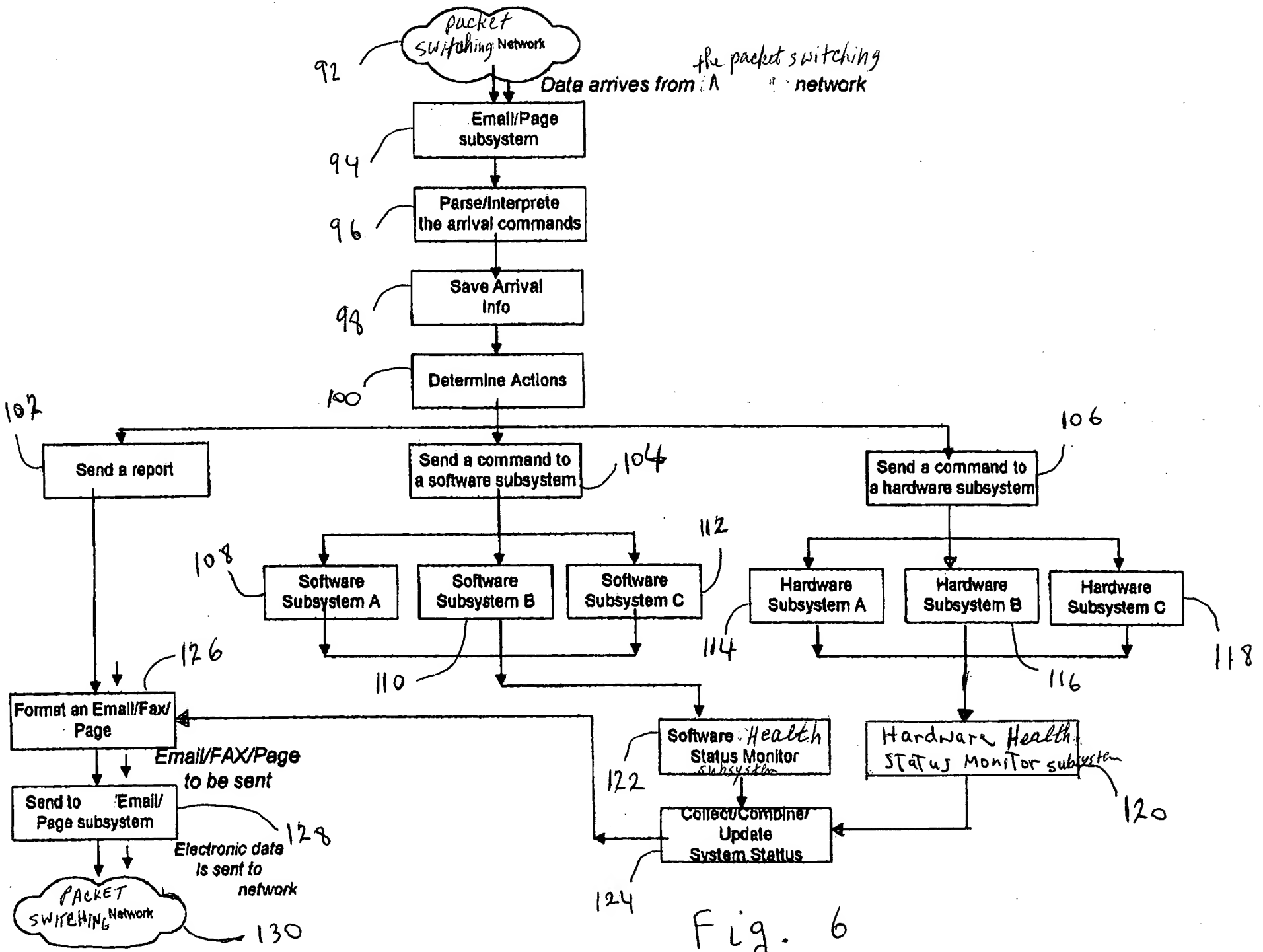
Fig. 5


packet switching Network
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Data arrives from the packet switching network
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Parse/Interprete the arrival commands
96
Save Arrival Info
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Determine Actions
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Send a report
Send a command to a software subsystem
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Send a command to a hardware subsystem
108
Software Subsystem A
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Software Subsystem C
112
Hardware Subsystem A
Hardware Subsystem B
Hardware Subsystem C
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126
Format an Email/Fax/ Page
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128
Electronic data is sent to network
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130
Software Health Status Monitor subsystem
122
Hardware Health Status Monitor subsystem
120
Collect/Combine/ Update System Status
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Fig. 6